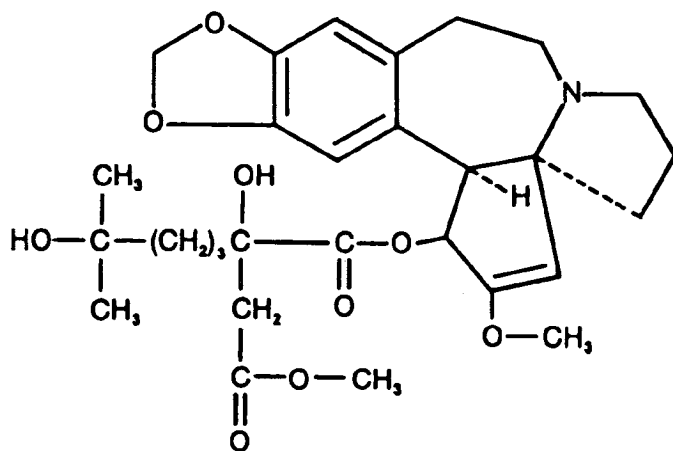


# HOMOHARRINGTONINE

NSC - 141633



**Chemical Name:** Cephalotaxine, 4-methyl 2-hydroxy-2-(4-hydroxy-4-methylpentyl)butanedioate (ester), [3(R)]-

**Molecular Formula:**  $C_{29}H_{39}NO_9$

**M.W.** 545.6

## Stability:

### Bulk:

Room temperature and 60 °C stability studies indicate the chemical to be stable for at least 30 days (HPLC).

### Solution:

Room temperature stability studies for homoharringtonine (1 mg/mL) in 10% ethanol showed 16% decomposition after 24 hours and 35% decomposition after 96 hours (HPLC).

## Ultraviolet Absorption:

(Methanol)

$$\lambda_{\max} = 291 \pm 2 \text{ nm}$$

$$\epsilon = 4,000 - 4,250$$

## High Performance Liquid Chromatography:

<b>Column:</b>	Waters RCM C <sub>18</sub> cartridge
<b>Mobile Phase:</b>	MeOH/water/NH <sub>4</sub> OH (75/50/3)
<b>Flow Rate:</b>	3 mL/min
<b>Detection:</b>	UV at 280 nm
<b>Sample Preparation:</b>	1 mg/mL in methanol or internal standard solution
<b>Internal Standard:</b>	strychnine (30 mg/25 mL of MeOH)
<b>Retention Volume:</b>	12.0 mL (NSC-141633) 5.2 mL (I.S.)

## Toxicity Data:

Mouse(ip): LD<sub>50</sub>: 1960 µg/kg  
Chinese Medical Journal, 92,175,(1979)

Mouse(ip): LD<sub>50</sub>: 6.5 mg/kg  
Journal of Applied Toxicology,6,270(1986)